

Form PTO-1449

INFORMATION DISCLOSURE STATEMENT

Atty. Docket:
469201-582Serial No.:
10/027,350

Applicant: Scott J. Hultgren

Filing Date: 28 December

Group:

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
KS1	A1	6,500,434	31 December 2002	Langermann et al		
	B1					
	C1					

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Sub-Class	Translation
KS5	D1	WO 95/20657	3 August 1995	PCT WIP ^o		<input type="checkbox"/> Yes <input type="checkbox"/> No
KS5	E1	WO 01/04148	18 January 2001	PCT WIP ^o		<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KS5	F1	Sauer, et al., "Structural Basis of Chaperone Function and Pilus Biogenesis," Science, Vol. 285, pp. 1058-1061 (August 1999).
	G1	Barnhart, et al., "PapD-like chaperones provide the missing information for folding of pilin proteins," PNAS, Volume 97, No. 14 (July 5, 2000).
	H1	Choudhury, et al., "X-ray Structure of the FimC-FimH Chaperone-Adhesin Complex from Uropathogenic Escherichia coli," Science, Vol. 285, pp. 1061-1066 (August 13, 1999).
	I1	Langermann, et al., "Prevention of Mucosal Escherichia coli Infection by FimH-Adhesin-Based Systemic Vaccination," Science, Vol. 276, pp. 607-611 (April 25, 1997).
	J1	Jones, et al., "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," Proc. Nat'l. Acad. Sci. USA, Vol. 90, pp. 8397-8401 (September 1993).
	K1	Hung, et al., "Molecular basis of two subfamilies of immunoglobulin-like chaperones," EMBO Journal, Volume 15, No. 15, pp. 3792-3805 (1996).
	L1	Hultgren, et al., "The PapG adhesin of uropathogenic Escherichia coli contains separate regions for receptor binding and for the incorporation into the pilus," Proc. Nat'l. Acad. Sci. USA, Volume 86, pp. 4357-4361 (June 1989).
	M1	Knight, et al., "Crystallization and preliminary X-ray diffraction studies of the FimC-FimH chaperone-adhesin complex from Escherichia coli," Acta Crystallographica, Section D, pgs. 207-210 (1997).
	N1	Saulino, et al., "Ramifications of kinetic partitioning on usher-mediated pilus biogenesis," EMBO Journal, Volume 17, No. 8, pp. 2177-2185 (1998).
KS5	O1	Bereneice McClentton Madison, "Structural, Antigenic and Functional Analysis of FIMH Protein in Escherichia Coli and Klebsiella Pneumoniae Type 1 Fimbriae," Univ. of Tennessee Cntr. for the Health Sciences, Vol. 52/06-B, page 2893, 159 pages (1990).

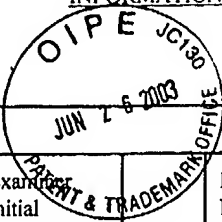
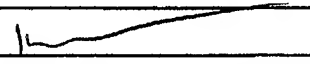
Examiner:

Date Considered:

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

RECEIVED
JUN 3 0 2003
TECH CENTER 1800/2800

Form PTO-1449				Atty. Docket: 469201-582		Serial No.: 10/027,350	
INFORMATION DISCLOSURE STATEMENT 				Applicant: Scott J. Hultgren			
				Filing Date: 28 December 2001		Group:	
U.S. PATENT DOCUMENTS							
Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date	
	P1						
FOREIGN PATENT DOCUMENTS							
Examiner Initial	Document Number	Date	Country	Class	Sub-Class	Translation	
	Q1					<input type="checkbox"/> Yes <input type="checkbox"/> No	
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
1	R1	"Abstracts of the 89th Annual Meeting of the American Society for Microbiology," New Orleans, La, May 14-18, 1989					
	S1	Tewari, et al., "Neutrophil Activation by Nascent FimH Subunits of Type 1 Fimbriae Purified from the Periplasm of <i>Escherichia coli</i> ," Journal of Biological Chemistry, Vol. 268, No. 4, pp. 3009-3015 (1993).					
	T1	Palaszynski et al, in <u>Modulation of the Immune Response to Vaccine Antigens</u> , Vol. 92, pp 117-122 (1998)					
	U1	Thankavel, et al., "Localization of a Domain in the FimH Adhesin of <i>Escherichia coli</i> Type 1 Fimbriae Capable of Receptor Recognition and use of a Domain-specific Antibody to Confer Protection against Experimental Urinary Tract Infection," American Society for Clinical Investigation, Vol. 100, No. 5, pp. 1123-1136 (September 1997).					
	V1	Abraham, et al., "Conservation of the D-Mannose-adhesion protein among type 1 fimbriated members of the family Enterobacteriaceae," Nature, Vol. 336 (December 1988).					
	W1	Abraham, et al., "Protection Against <i>Escherichia coli</i> -Induced Urinary Tract Infections with Hybridoma Antibodies Directed Against Type 1 Fimbriae or Complementary D-Mannose Receptors, Infection and Immunity, Vol. 48, No.3, pgs. 625-628 (June 1985).					
	X1	Hanley, et al., "Molecular Basis of <i>Escherichia coli</i> Colonization of the Upper Urinary Tract in BALB/c Mice," Amer. Society for Clinical Investigation, Inc., Vol. 75, pp. 347-360 (February 1985).					
	Y1	Langermann et al., J. Infectious Dis., Vol. 181, pp. 774-778 (2000)					
	Z1	Langermann et al., J. Infectious Dis., Vol. 183, Suppl., pp. S84-S86 (2001)					
1	AA	Dodson et al, PNAS (USA), Vol. 90, pp. 3670-3674 (1993)					
	BB						
	CC						
Examiner: 				Date Considered: 1/10/04			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

RECEIVED
 JUN 3 9 2003
 TECH CENTER 1800/1800

Form PTO-1449

INFORMATION DISCLOSURE STATEMENT

Atty. Docket:
469201-582Serial No.:
10/027,350

Applicant: Scott J. Hultgren

Filing Date: 28 December

Group:

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
KSI	A1	6,500,434	31 December 2002	Langermann et al		
	B1					
	C1					

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Sub-Class	Translation
KSS	D1	WO 95/20657	3 August 1995	PCT WIPO		<input type="checkbox"/> Yes <input type="checkbox"/> No
KSS	E1	WO 01/04148	18 January 2001	PCT WIPO		<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KSS	F1	Sauer, et al., "Structural Basis of Chaperone Function and Pilus Biogenesis," Science, Vol. 285, pp. 1058-1061 (August 1999).
	G1	Barnhart, et al., "PapD-like chaperones provide the missing information for folding of pilin proteins," PNAS, Volume 97, No. 14 (July 5, 2000).
	H1	Choudhury, et al., "X-ray Structure of the FimC-FimH Chaperone-Adhesin Complex from Uropathogenic Escherichia coli," Science, Vol. 285, pp. 1061-1066 (August 13, 1999).
	I1	Langermann, et al., "Prevention of Mucosal Escherichia coli Infection by FimH-Adhesin-Based Systemic Vaccination," Science, Vol. 276, pp. 607-611 (April 25, 1997).
	J1	Jones, et al., "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," Proc. Nat'l. Acad. Sci. USA, Vol. 90, pp. 8397-8401 (September 1993).
	K1	Hung, et al., "Molecular basis of two subfamilies of immunoglobulin-like chaperones," EMBO Journal, Volume 15, No. 15, pp. 3792-3805 (1996).
	L1	Hultgren, et al., "The PapG adhesin of uropathogenic Escherichia coli contains separate regions for receptor binding and for the incorporation into the pilus," Proc. Nat'l. Acad. Sci, USA, Volume 86, pp. 4357-4361 (June 1989).
	M1	Knight, et al., "Crystallization and preliminary X-ray diffraction studies of the FimC-FimH chaperone-adhesin complex from Escherichia coli," Acta Crystallographica, Section D, pgs. 207-210 (1997).
	N1	Saulino, et al., "Ramifications of kinetic partitioning on usher-mediated pilus biogenesis," EMBO Journal, Volume 17, No. 8, pp. 2177-2185 (1998).
KSS	O1	Bereneice McClentton Madison, "Structural, Antigenic and Functional Analysis of FIMH Protein in Escherichia Coli and Klebsiella Pneumoniae Type 1 Fimbriae," Univ. of Tennessee Cntr. for the Health Sciences, Vol. 52/06-B, page 2893, 159 pages (1990).

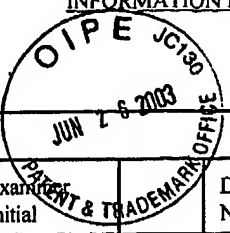
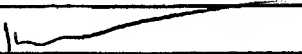
Examiner:

Date Considered:

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

RECEIVED
JUN 3 0 2003
TECH CENTER 1000/2000

Form PTO-1449		Atty. Docket: 469201-582		Serial No.: 10/027,350	
INFORMATION DISCLOSURE STATEMENT 		Applicant: Scott J. Hultgren		Filing Date: 28 December 2001	
		Group:			
U.S. PATENT DOCUMENTS					
Examiner Initial	Document Number	Date	Name	Class	Filing Date
	P1				
FOREIGN PATENT DOCUMENTS					
Examiner Initial	Document Number	Date	Country	Class	Sub-Class
	Q1				
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)					
	R1	"Abstracts of the 89th Annual Meeting of the American Society for Microbiology," New Orleans, La, May 14-18, 1989			
	S1	Tewari, et al., "Neutrophil Activation by Nascent FimH Subunits of Type 1 Fimbriae Purified from the Periplasm of <i>Escherichia coli</i> ," Journal of Biological Chemistry, Vol. 268, No. 4, pp. 3009-3015 (1993).			
	T1	Palaszynski et al, in <i>Modulation of the Immune Response to Vaccine Antigens</i> , Vol. 92, pp 117-122 (1998)			
	U1	Thankavel, et al., "Localization of a Domain in the FimH Adhesin of <i>Escherichia coli</i> Type 1 Fimbriae Capable of Receptor Recognition and use of a Domain-specific Antibody to Confer Protection against Experimental Urinary Tract Infection," American Society for Clinical Investigation, Vol. 100, No. 5, pp. 1123-1136 (September 1997).			
	V1	Abraham, et al., "Conservation of the D-Mannose-adhesion protein among type 1 fimbriated members of the family Enterobacteriaceae," Nature, Vol. 336 (December 1988).			
	W1	Abraham, et al., "Protection Against <i>Escherichia coli</i> -Induced Urinary Tract Infections with Hybridoma Antibodies Directed Against Type 1 Fimbriae or Complementary D-Mannose Receptors, Infection and Immunity, Vol. 48, No.3, pgs. 625-628 (June 1985).			
	X1	Hanley, et al, "Molecular Basis of <i>Escherichia coli</i> Colonization of the Upper Urinary Tract in BALB/c Mice," Amer. Society for Clinical Investigation, Inc., Vol. 75, pp. 347-360 (February 1985).			
	Y1	Langermann et al., J. Infectious Dis., Vol. 181, pp. 774-778 (2000)			
	Z1	Langermann et al., J. Infectious Dis., Vol. 183, Suppl., pp. S84-S86 (2001)			
	AA	Dodson et al, PNAS (USA), Vol. 90, pp. 3670-3674 (1993)			
	BB				
	CC				
Examiner: 			Date Considered: 1/10/04		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.					

RECEIVED
 JUN 30 2003
 TECH CENTER 10012000